ABSTRACT OF THE DISCLOSURE

A bodymak r coolant in an aluminum drawing-and-ironing operation often is a slurry in water of a predominantly organic "neat lube" that includes a boron-amine complex as one of its constituents. The neat lube is consumed during use and therefore needs to be replenished in the bodymaker coolant, but chemical analysis of the neat lube in bodymaker coolant has proved to be difficult in practice. It has been found that (1) the concentration of boron in the bodymaker coolant serves as an adequate proxy for the concentration of all other constituents in the neat lube that need to be controlled during use of the bodymaker coolant in order to obtain sufficiently precise control to assure commercially reliable results from passage of container units through the drawing and ironing process, even if the bodymaker coolant includes suspended fine particles of metal; and (2) other constituents of many conventional bodymaker coolants interfere significantly with standard methods for the analytical determination of boron content, but this interference can be prevented by suitable additions to a sample of the bodymaker coolant. An improved analytical method is based on these discoveries.

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